

WHAT IS CLAIMED AS NEW AND IS DESIRED TO BE SECURED BY LETTERS
PATENT OF THE UNITED STATES IS:

1. A laminated window comprising a glass sheet and an intermediate film, wherein
5 said film has a loss factor $\tan \delta$ greater than 0.6 and a shear modulus G' smaller than 2×10^7
N/cm² in a temperature range between 10 and 60°C and in a frequency range between 50 and
10,000 Hz.

2. A window according to claim 1, wherein said intermediate film is associated with at
least one film of normal acoustic performance.

10 3. A window according to claim 2, wherein the intermediate film is a thermoplastic
acrylic polymer film 0.05 to 1.0 mm thick, and wherein this film is joined to a glass sheet
with interposition of a polyester film 0.01 to 0.1 mm thick, and a thermoplastic cement film
0.3 to 0.8 mm thick.

15 4. A window according to claim 3, comprising two glass sheets each of which are
respectively joined to the thermoplastic acrylic film by said thermoplastic cement film and a
polyester film.

20 5. A window according to claim 1, further comprising a thermoplastic cement film, a
polyester film interposed between the thermoplastic cement film and the intermediate film,
and a polyester film juxtaposed on the other face of the intermediate film and provided on its
free surface with an abrasion-resistant layer.

6. A window according to claim 1, wherein the intermediate film comprises
viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus G'
between $10^{4.5}$ Pa at 60°C and $10^{6.5}$ Pa at 0°C as well as a loss factor $\tan \delta$ between
approximately 0.8 and 1 in a temperature range of 0 to 60°C.

7. A window according to claim 2, wherein the intermediate film comprises viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus G' between $10^{4.5}$ Pa at 60°C and $10^{6.5}$ Pa at 0°C as well as a loss factor $\tan \delta$ between approximately 0.8 and 1 in a temperature range of 0 to 60°C .

5 8. A window according to claim 3, wherein the intermediate film comprises viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus G' between $10^{4.5}$ Pa at 60°C and $10^{6.5}$ Pa at 0°C as well as a loss factor $\tan \delta$ between approximately 0.8 and 1 in a temperature range of 0 to 60°C .

10 9. A window according to claim 4, wherein the intermediate film comprises viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus G' between $10^{4.5}$ Pa at 60°C and $10^{6.5}$ Pa at 0°C as well as a loss factor $\tan \delta$ between approximately 0.8 and 1 in a temperature range of 0 to 60°C .

15 10. A window according to claim 5, wherein the intermediate film comprises viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus G' between $10^{4.5}$ Pa at 60°C and $10^{6.5}$ Pa at 0°C as well as a loss factor $\tan \delta$ between approximately 0.8 and 1 in a temperature range of 0 to 60°C .

11. A window according to Claim 3, wherein said polyester film is a polyethylene terephthalate film.

20 12. A window according to claim 1, wherein one of the layers of the laminated window is provided with a layer that reflects infrared radiation.

13. A film designed to be used as an intermediate layer in a soundproofing laminated window, said film having a loss factor $\tan \delta$ greater than 0.6 and a shear modulus G' smaller than $2 \times 10^7 \text{ N/cm}^2$ in a temperature range between 10 and 60°C and in a frequency range between 50 and 10,000 Hz.

14. A film according to claim 13, wherein said film is associated with at least one film of normal acoustic performance.

15. A film according to claim 14, wherein said film is a thermoplastic acrylic polymer film 0.05 to 1.0 mm thick, and wherein said film is joined to at least one glass sheet with interposition of a polyester film 0.01 to 0.1 mm thick and a thermoplastic cement film 0.3 to 0.8 mm thick.

16. A film according to claim 15, wherein the thermoplastic film comprises viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus G' between $10^{4.5}$ Pa at 60°C and $10^{6.5}$ Pa at 0°C , as well as a loss factor $\tan \delta$ between approximately 0.8 and 1 in a temperature range of 0 to 60°C .

17. A film according to claim 13, wherein said film comprises plasticizers and polyvinylacetal resins.

18. A method for the acoustic attenuation of noises of structure-borne origin in an article of manufacture, comprising installing a window made of at least one glass sheet and one intermediate film, wherein the intermediate film of the laminated window has a loss factor $\tan \delta$ greater than 0.6 and a shear modulus G' smaller than $2 \times 10^7 \text{ N/cm}^2$ in a temperature range between 10 and 60°C and in a frequency range between 50 and 10,000 Hz in said article.